

What is Claimed is:

1. An electrical energy storage device, which comprises:
 - a) a first electrode comprising an electrode active
5 material contacted to a support portion of a current collector, wherein the current collector has an exposed tab provided with unique identifying marks;
 - b) a second, counter electrode;
 - c) a separator disposed between the first and second
10 electrodes to prevent direct contact between them when they are in electrical association with each other;
 - d) a casing housing the first and second electrodes;
and
 - e) a first terminal connected to the current
15 collector of the first electrode and a second, opposite polarity terminal connected to the second electrode.
2. The electrical energy storage device of claim 1
wherein the unique identifying marks on the current
20 collector tab are an ID matrix.
3. The electrical energy storage device of claim 1
wherein the unique identifying marks are characterized as
having been provided on the current collector tab by
25 etching.
4. The electrical energy storage device of claim 1
wherein the unique identifying marks designates at least a
cell serial number.

5. The electrical energy storage device of claim 1 wherein the unique identifying marks relate to the weight of the current collector.

5 6. The electrical energy storage device of claim 1 wherein the unique identifying marks relate to a gram amount of the electrode active material contacted to the support portion of the current collector.

10 7. The electrical energy storage device of claim 1 wherein the support portion of the current collector comprises opposed first and second major faces and wherein a first electrode active material contacts the first major face and a second electrode active material contacts the
15 second major face.

8. The electrical energy storage device of claim 7 wherein the first and second electrode active materials are each within about ± 0.005 grams of a specified weight.
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9. The electrical energy storage device of claim 7 wherein the first electrode is a cathode electrode with silver vanadium oxide and fluorinated carbon contacted to the opposed first and second major faces of the current
25 collector to provide the cathode having the configuration: silver vanadium oxide/current collector/fluorinated carbon.

10. The electrical energy storage device of claim 7 wherein the first electrode is a cathode electrode comprising two current collectors, each having first and second major faces with exposed tabs provided with unique
5 identifying marks and wherein the cathode electrode has the configuration: silver vanadium oxide/current collector/fluorinated carbon/current collector/silver vanadium oxide.

10 11. The electrical energy storage device of claim 7 wherein the current collector comprises wing sections connected together by the tab and wherein each wing section has opposed first and second major faces contacted with an electrode active material.

15 12. The electrical energy storage device of claim 1 selected from the group consisting of a prismatic electrochemical cell, a jellyroll electrochemical cell, a button-type cell, a coin-cell, an electrochemical
20 capacitor, an electrolyte capacitor, and a hybrid capacitor.

13. An implantable medical device powered by an electrochemical cell, the cell comprising:

a) a current collector comprising a support portion and a tab provided with unique identifying marks, wherein
5 the support portion of the current collector comprises opposed first and second major faces contacted with silver vanadium oxide and fluorinated carbon, respectively, while the tab remains exposed;

b) a second, counter electrode;

10 c) a separator disposed between the first and second electrodes to prevent direct contact between them when they are in electrical association with each other;

d) a casing housing the first and second electrodes;
and

15 e) a first terminal connected to the current collector of the first electrode and a second, opposite polarity terminal connected to the second electrode.

14. The implantable medical device of claim 13 wherein the
20 unique identifying marks relate to the weight of the current collector and to a gram amount of silver vanadium oxide and fluorinated carbon gram contacted to the opposed first and second major faces of the current collector support portion.

15. The implantable medical device of claim 13 selected from the group consisting of an automatic implantable cardioverter defibrillator, a cardiac pacemaker, neurostimulator, a drug pump, a bone growth stimulator, and
5 a hearing assist device.

16. A method for providing an electrochemical cell, comprising the steps of:

- a) providing a current collector having a support
10 portion intended to be contacted by an electrode active material and a tab;
- b) providing unique identifying marks on the current collector tab;
- c) contacting an electrode active material to the
15 support portion of the current collector while leaving the tab exposed, thereby providing a first electrode;
- d) providing a second, counter electrode;
- e) disposing a separator between the first and second electrodes housed inside a casing with the current
20 collector of the first electrode connected to a first terminal and the second electrode connected to a second terminal; and
- f) activating the first and second electrodes with an electrolyte filled into the casing.

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17. The method of claim 16 including providing the unique identifying marks on the current collector tab as an ID matrix.

18. The method of claim 16 including having the unique identifying marks relate to a gram amount of electrode active material contacted to the support portion of the current collector.

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19. The method of claim 16 including providing the support portion of the current collector comprising opposed first and second major faces with a first electrode active material contacted to the first major face and a second
10 electrode active material contacted to the second major face.

20. The method of claim 19 including scanning the unique identifying marks provided on the current collector tab and
15 recording the associated weights for the current collector, the first electrode active material and the second electrode active material.

21. The method of claim 16 including providing the casing
20 with case identifying marks.

22. The method of claim 21 including scanning the case identifying marks and recording the associated weights for the current collector, the first electrode active material
25 and the second electrode active material housed therein.

23. The method of claim 16 including providing the first and second active materials being ± 0.005 grams of a specified weight and the current collector being within ± 0.006 grams of a specified weight.